

ROAD PLAN

SALE NAME: Capitol Split

ROAD PLAN DATE: April 22, 2004

SCOPE OF PROJECT

This project includes, but is not limited to new construction including: clearing, grubbing, right-of-way debris disposal, excavation and/or embankment to subgrade, landing construction, acquisition and installation of drainage structures, and hauling and application of rock.

This project also includes, but is not limited to reconstruction including:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
H-1011	MP 0.55-1.46	Brush road right of way, reconstruct ditch lines, remove organic debris from road bed, install culverts as per culvert list, pre-level and spot patch as directed by the Contract Administrator.
LS 15+06	0+00-8+97	Brush road right of way, reconstruct ditch lines, remove organic debris from road bed, install culverts as per culvert list, apply rock as per rock list.
LS 13+27	0+00-5+82	Brush road right of way, reconstruct ditch lines, remove organic debris from road bed, apply rock as per rock list.

This project also includes, but is not limited to pre-haul maintenance including:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
H-1001	0+00-27+60	Brush road right of way, clean ditch lines, install culverts as per culvert list, spot patch as directed by the Contract Administrator.
H-1010	MP 0-0.24	Brush road right of way, clean ditch lines, install culverts as per culvert list, spot patch as directed by the Contract Administrator, repair the bridge as per bridge detail sheet.
H-1011	MP 0.24-0.55	Brush road right of way, clean ditch lines, install culverts as per culvert list, pre-level and spot patch as directed by the Contract Administrator.

All ditching waste shall be spread outside of the clearing limits, berms or bucket piles shall not be allowed. Grading of the existing road beds is planned to be minimal to remove organic debris without the loss of existing rock and to pre-level and spot patch.

Under ground power lines are present on the HG-1001 road to Unit one. Purchaser shall contact, The Buried Cable Locating Service at 1-800-424-5555 prior to beginning road work.

SECTION 1 - GENERAL CLAUSES

1.1-1

Clauses in this plan apply to all construction or reconstruction or pre-haul maintenance including landings unless otherwise noted.

1.1-2

Construction or reconstruction or pre-haul maintenance of the following road/s is required. All road/s shall be constructed on the State's location and in accordance with the Road Plan.

<u>Road</u>	<u>Length</u>	<u>Type</u>
H-1001	27.60 stations	Pre-haul maintenance
LS 9+30	9.30 stations	Construction
H-1010	0.24 mile	Pre-haul maintenance
H-1011	0.31 mile	Pre-haul maintenance
H-1011	0.91 mile	Reconstruction

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1.1-3

Construction or reconstruction or pre-haul maintenance of the following road/s is not required. **If the Purchaser elects to use any of these roads, they shall be constructed or reconstructed on the State's location and in accordance with this Road Plan.**

<u>Road</u>	<u>Length</u>	<u>Type</u>
LS 4+40	4.40 stations	Construction
LS 15+06	8.97 stations	Reconstruction
LS 15+06	6.09 stations	Construction
LS 7+77	7.77 stations	Construction
LS 13+27	5.82 stations	Reconstruction
LS 13+27	7.45 stations	Construction
LS 5+88	5.88 stations	Construction

1.1-4

Any departure from this Road Plan including relocation, extension, change in design or additional roads shall be submitted, in writing, to the Contract Administrator for consideration. Submitted plans must be approved before construction begins.

1.1-5

On this plan quantities are minimum acceptable values. Additional quantities required by the State because of hidden conditions or Purchaser's choice of construction season or techniques shall be at the Purchaser's expense. Hidden conditions include, but are not limited to, solid subsurface rock, subsurface springs or saturated ground, and unstable soil.

1.2-1

Construction and/or reconstruction of Unit 2 roads shall not be permitted from October 15 to July 15 unless authority to do so is granted, in writing, by the Contract Administrator.

1.2.1-1

Pioneering shall not extend past construction that will be completed during the current construction season. Drainage shall be provided on all uncompleted construction as approved, in writing, by the Contract Administrator.

Clearing and grubbing shall be completed prior to starting excavation and embankment.

Culvert placement in live streams shall precede embankment where culverts are to be placed along natural ground. Temporary diversion culverts shall be provided when designed culverts are elevated above natural ground within embankments.

Culverts shall be installed in completed subgrade as construction progresses.

Culverts shall be installed with a backhoe or an excavator.

Culvert backfill shall be compacted with a mechanical compactor.

Subgrade, ditches and culvert installation shall be completed and are subject to written approval by the Contract Administrator prior to rock application.

1.2-2

Purchaser shall not use roads constructed or reconstructed or pre-haul maintained under this Road Plan for hauling, other than timber cut on the right of way, without written approval from the Contract Administrator.

1.2-3

All roads shall be constructed/reconstructed using track mounted hydraulic excavators unless otherwise authorized, in writing, by the Contract Administrator.

SECTION 2 - CLEARING

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2.1-1 Fell all vegetative material larger than 6 inches dbh or over 20 feet high between the marked right-of-way boundaries and within waste areas or if not marked in the field, between clearing limits specified on Typical Section Sheet.

2.1-3 Right-of-way timber shall not be decked within the grubbing limits or in locations that interfere with the construction of the road prism, as defined by the Contract Administrator. Right-of-way timber shall not be decked in locations that impede drainage.

SECTION 3 - GRUBBING

3-1 All stumps shall be removed that fall between grubbing limits shown on the Typical Section Sheet. Those with undercut roots shall be removed.

3-2 Grubbing limits are defined as the entire area between external limits shown on the Typical Section Sheet.

SECTION 4 - DEBRIS DISPOSAL AND REMOVAL

4.1-1 Right-of-way debris is defined as all vegetative material larger than one cubic foot in volume, within the clearing limits.

4.1-2 All right-of-way debris disposal shall be completed prior to application of rock.

4.2.3-3 Right-of-way debris shall not be placed against standing timber.

4.2.3-4 Right of way debris shall be scattered outside the grubbing limits.

SECTION 5 - EXCAVATION

5.1-1 Unless controlled by construction stakes or specific design sheets herein, roads shall be constructed in accordance with dimensions shown on the Typical Section Sheet.

5.1-3 The construction of road grade and alignment shall conform to the State's marked location. The reconstruction of existing road grades shall conform to the original location except as directed by the contract administrator. Grade and alignment shall have smooth continuity, without abrupt changes in direction.

Construction limitations are as follows:

Favorable Grade

Adverse Grade

Minimum Curve Radius

18%

12%

60 feet

5.1-4 Extra widening on the inside of curves shall be:

2 feet extra --- 80 to 100 foot radius curves

4 feet extra --- 60 to 80 foot radius curves

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5.1-5 Curve widening where required, shall be added to the inside of curves.

5.1-8 Excavation slopes shall be constructed no steeper than shown on the following table (except as construction staked or designed):

<u>Material Type</u>	<u>Excavation Slope Ratio</u>
Common Earth (on side slopes to 55%).....	1:1
Common Earth (55% to 70% side slopes).....	3/4:1
Common Earth (on slopes over 70%).....	1/2:1
Fractured or loose rock	1/2:1
Hardpan or solid rock	1/4:1

5.1-9 Excavation and embankment slopes shall be constructed to a uniform line and left rough for easier revegetation.

5.1-10 Embankments shall be widened as follows:

<u>Height at Shoulder</u>	<u>Subgrade Widening</u>
Less than 6 feet	2 feet
6 feet or over	4 feet

5.1-11 Embankment slopes shall be constructed no steeper than shown on the following table:

<u>Material Type</u>	<u>Embankment slope ratio</u>
Common earth and rounded gravel.....	1-1/2:1
Angular rock	1-1/4:1
Sandy Soils	2:1

5.1-12 Organic material shall be excluded from embankment shown on Typical Section Sheet and from waste material deposited on slopes in excess of 40 percent.

5.1-15 **Except as listed in clause 5.1-16 (endhaul/overhaul),** excavated material may be deposited adjacent to the road prism on side slopes up to 45 percent if the material is compacted and more than 50 feet away from live streams.

5.1-16 On the following road all excavated material shall be end-hauled to the designated waste area or compacted in the designated area.

<u>Road</u>	<u>Endhaul/Compact</u>	<u>Waste Area Location</u>
H-1011	From To	
	MP 0.72-0.78	Compact left side of road
	MP 0.94-0.98	Compact left side of road
	MP 0.98-1.01	Waste area MP 0.3
	MP 1.03-1.05	Compact right side of road
	MP 1.09-1.14	Waste area MP 0.3
	MP 1.35	Apx. 20 cu. yds. shake spalls from culvert site to waste area

5.1-21 Waste material shall not be deposited within 50 feet of a live stream.

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5.1-24

Turnouts shall be intervisible with a maximum of 1,000 feet between turnouts unless shown otherwise on drawings.

5.2-1

Pioneering operations shall not undercut the final cut slope, deposit excavated material outside the right-of-way limits or restrict drainage.

5.3-1

All embankment and waste material shall be compacted. The minimum acceptable compaction is achieved by placing embankments in 2 foot or shallower lifts and routing excavation equipment over the entire width of the lifts. Side hill embankments too narrow to accommodate excavation equipment may be placed by end-dumping or side casting until sufficiently wide to support the equipment.

5.4-1

Silt-bearing runoff, as defined by the Contract Administrator, shall not be permitted to go into streams.

5.4-2

Accomplish sediment removal through silt traps, silt fences, settling ponds or other methods to be approved, in writing, by the Contract Administrator.

5.5-5

Finished subgrade shall be crowned as shown on the Typical Section Sheet. Grade and compact to a uniform, firm, rut-free surface to ensure surface runoff in an even unconcentrated manner.

5.6-1

Purchaser shall grass seed and hay mulch exposed soil around culvert installations on the H-1011 from MP 0.55-1.46. Hay mulch shall be approximately two inches thick. Seed and mulch shall be provided by the Purchaser and shall be applied at the earliest possible opportunity between July 1 and September 15.

5.6-5

Subgrade Reinforcement, geotextile fabric shall be installed as part of this project to strengthen the subgrade base and/or reinforce the installation of culverts. Reinforcement fabric shall be non woven, a minimum of 4 oz. per square yard, and shall meet or exceed the properties of DuPont TYPAR 3601, Exxon GTF 300, AMOCO 2006, or Synthetic Industries Geotex 315ST. The purchaser is required to supply the following reinforcement fabric for this project:

<u>Road</u>	<u>Stations</u>
H-1010	Bridge Repair MP 0.10, as per detail sheet
H-1011	Prelevel sites, MP 0.4, 0.45, 1.05, 1.11, 1.14, 1.20, 1.35, 1.40, approx. 650 lineal feet.
H-1011	Culvert installation sites as per culvert list, approx. 150 lineal feet.
LS 7+77	5+97-6+74

SECTION 6 - DRAINAGE

6.2.1-1

Purchaser shall furnish, install and maintain corrugated polyethylene culvert as designated on Culvert List. Culvert and flume lengths shall be varied to fit as built conditions subject to written approval by the Contract Administrator.

Note: Temporary culverts may be galvanized steel.

6.2.1-1A

Corrugated polyethylene culvert shall have a corrugated exterior and smooth interior, shall meet ASTM F405, F667 and AASHTO M252, M294 Standard Specifications, and shall be manufactured with high density polyethylene resins.

6.2.1-2

Manufacturer's approved connectors shall be used for corrugated polyethylene pipe. Annular corrugated bands and culverts ends shall be used on steel culverts.

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6.2.2.1-1

Culvert, downspout, flume and energy dissipater installation shall be in accordance with Culvert and Drainage Specification Detail.

6.2.2.3-1

Cross drains and surface culverts on road grades in excess of 3% shall be skewed at least 30 degrees from perpendicular to the road centerline.

6.2.2.3-2

Cross drain culverts shall be installed at a slope steeper than the incoming ditch grade, but not less than 3 percent nor more than 10 percent.

6.2.2.4-1

Installation of culverts 36 inches in diameter and over shall be approved in writing by the Contract Administrator prior to making backfill.

6.2.2.5-1

Drainage structure outfalls shall not terminate directly on unprotected soil that will erode. Downspouts, flumes and energy dissipaters shall be installed to prevent erosion.

6.3-1

Ditches shall be constructed prior to application of rock. Ditches shall drain to culverts, ditchouts and natural drainages.

6.3-2

Shaping the ditchline, culvert headwalls and catchbasins shall be completed prior to application of rock and shall be done in accordance with the Typical Section Sheet and Drainage Specification Detail.

6.4-1

Catch basins shall be constructed to resist erosion. Minimum dimensions: two feet wide and four feet long with backslopes consistent with Clause 5.1-8: Excavation Slopes.

6.5-1

Head walls shall be constructed in accordance with Culvert and Drainage Specification Detail at all cross-drain culverts.

6.5-2

Embankment slopes adjacent to culvert inlets and outlets shall be armored for a distance of two culvert diameters on each side of the pipe and one culvert diameter above the pipe in accordance with Culvert List.

SECTION 7 - ROCK

7.1-1

Rock used under this contract may be obtained from the following pits on State land:

<u>Source # / Name</u>	<u>Location</u>	<u>Rock Type</u>
A / Winfield South	35(27-12W)	Pitrun
B / Winfield North	35(27-12W)	1 ½ inch minus

7.2-1

All pit operations shall be done according to State plans as listed below:

Pit
Winfield

7.4.2-1

Apply at least the minimum required rock quantity as shown on the Rock List.

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7.4.2-2

Subgrade shall be approved, in writing, by the Contract Administrator prior to application of rock.

7.4.2-7

Turnouts and curve widening shall have rock applied to the same depth and specifications as the traveled way.

7.4.2-8

Each lift of rock shall be shaped as shown on the Rock List and shall be uniform, firm, rut-free and shaped to ensure surface runoff in an even unconcentrated manner.

7.4.3-3

Rock shall be spread, shaped and compacted concurrently with rock hauling operations.

SECTION 8 STRUCTURES

8.3-1

The purchaser shall repair the bridge at MP 0.1, H-1010 road. Repair includes but, is not limited to:

-Removal of existing gravel surfacing and replacement with a new gravel surface.

-Placement and tightening new cable wraps.

-Placement of chain link fencing and geotextile.

-Installment of a new shear rail upon the existing log shear rail. Elevation of the top of the new shear rail shall be a minimum of 16 inches above the new gravel surface. The DNR will provide treated timbers for new shear rails and shear rail blocking, to replace the top log shown on the detail sheet. The timbers are located at the sawmill at the Clearwater Correction Center. Purchaser shall be responsible for loading and transportation.

Purchaser shall provide all other materials and hardware for bridge repair.

SECTION 9 - ROAD DEACTIVATION

9.1-1

The following roads shall be deactivated by the purchaser within 10 days following completion of timber harvest. LS 5+88, LS 15+06, LS 13+27, LS 7+77.

9.1-2

Deactivation shall consist of:

1. Removing all temporary culverts. Resulting backslopes shall be 1:1 or shallower. Material removed shall be placed on the road bed and compacted, with slopes of 2:1 or shallower.

2. All removed culverts are the property of the Purchaser and shall be removed from State land.

3. Construct non-drive able water bars in locations as directed by the Contract Administrator. Water bars shall intercept the ditch line, be keyed into the road cut slope and freely drain. On grades in excess of 3%, water bars shall be skewed 30 degrees from the perpendicular of the road centerline.

4. Remove any berms, except as directed.

5. Purchaser shall furnish and apply grass seed to all areas of exposed soil. Including but not limited to: New cut slopes, fill slopes, ditch lines, water bars, culvert removal sites and tank traps. Grass seed shall be applied at a rate of 60 pounds per acre.

6. Block the roads to vehicular traffic by the means of tank traps.

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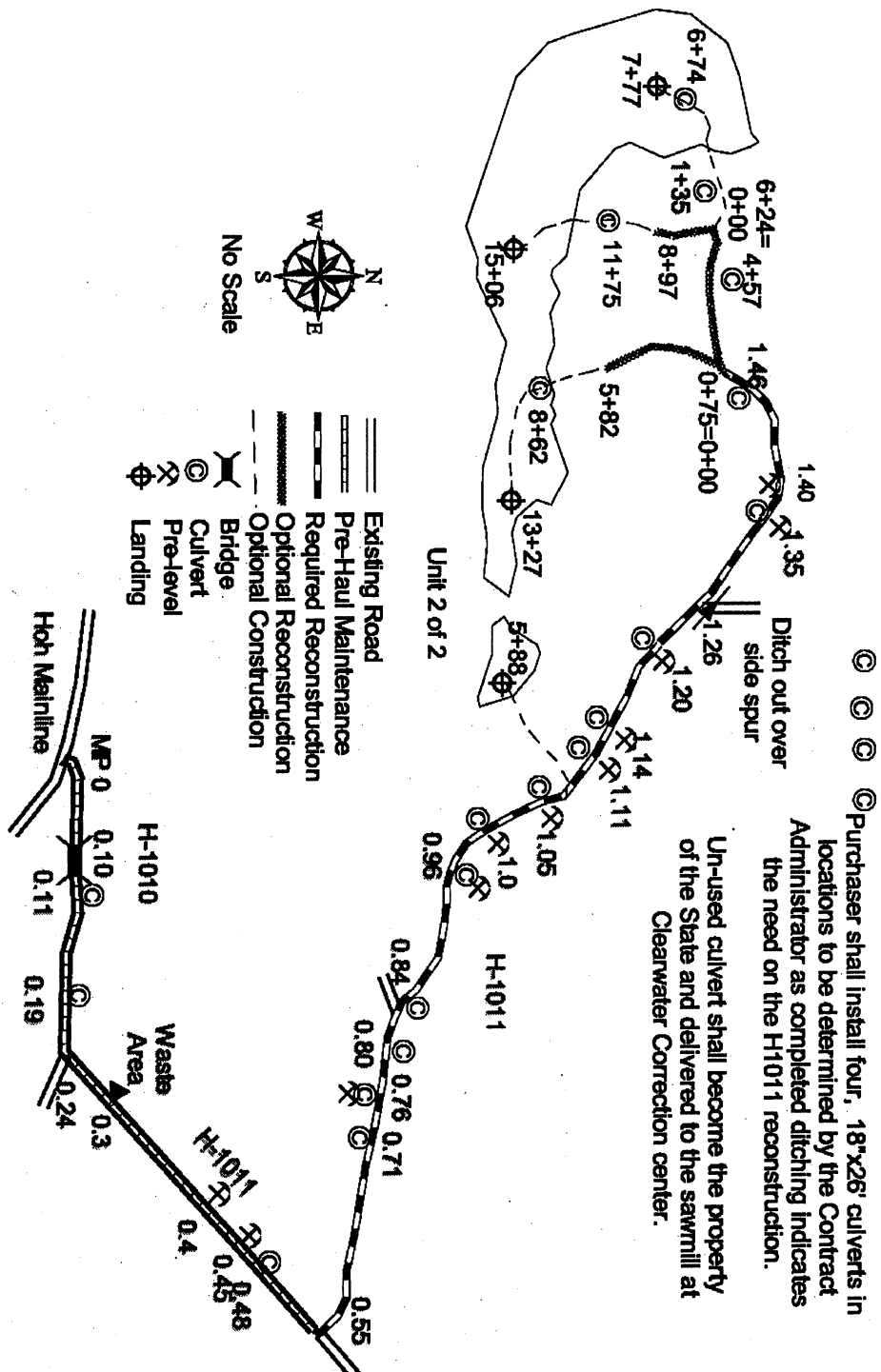
The map shows a road layout for Unit 1 of 2. The road starts at Allen's Cutoff at the bottom, marked with station 0+00. It proceeds north, passing station 5+00, 11+80, and 25+00. At station 25+00, the road turns east. A dashed line indicates a road extension to station 27+60, which is labeled as =0+00. Further east, there is a landing marked with a cross-in-circle symbol and station 4+40. Another landing is marked with a cross-in-circle symbol and station 9+30. A culvert is marked with a circle-in-cross symbol and station 5+42. The road continues to station 1+75, which is labeled as =0+00. A legend on the right side of the map defines the symbols: Existing Road (solid line), Pre-Haul Maintenance (dashed line), Required Construction (line with cross-ticks), Optional Construction (dashed line), Landing (cross-in-circle symbol), and Culvert (circle-in-cross symbol). A north arrow and the text 'No Scale' are also present. The text 'BURIED POWERLINES PRESENT' is written across the middle of the map. The text 'Unit 1 of 2' is written near the top right.

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PLAN VIEW



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CONSTRUCTION CLASS
 NEW CONSTRUCTION - C
 RECONSTRUCTION - R
 PRE-HAUL MAINTENANCE - P

TURNOUT DETAIL (PLAN VIEW)

SECTION VIEW

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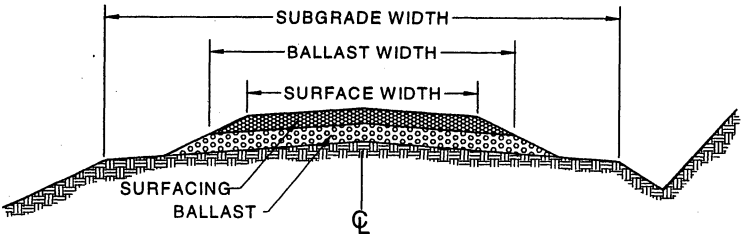
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ROCK LIST



SECTION VIEW

1. Rock quantities, subtotals and totals are “truck measure” estimates. Rock shall be applied to at least the depths listed. All depths are compacted depths.
2. Rock slopes shall be 1½ (H) : 1 (V).
3. All rock sources are subject to approval by the Contract Administrator.
4. Rock source A= Winfield South, Pitrun
Rock source B= Winfield North, 1 ½ inch minus

ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	BALLAST SOURCE	BALLAST WIDTH (ft)	BALLAST DEPTH (in)	BALLAST QUANTITY (cu.yd./sta)	BALLAST SUBTOTAL (cu.yd)	SURFACE SOURCE	SURFACE WIDTH (ft)	SURFACE DEPTH (in)	SURFACE QUANTITY (cu.yd./sta)	SURFACE SUBTOTAL (cu.yd)
H-1001	Spot	Patch		A				20					
LS 9+30	0+00	9+30	17'	A	12'	18"	110	1023					
LS 4+40	0+00	4+40	15'	A	10'	18"	95	484					
H-1010&1011	Prelevel	MP 0- 1.46		A	12'			500					
H-1010&1011	Spot	Patch		A	12'			100					
H-1010&1011	Spot	Patch							B	12'			100
H-1011	MP 0.5	Hill							B	12'	3"		40
LS 5+88	0+00	5+88	15'	A	10'	18"	95	559					
LS 15+06	0+00	8+97		A	12'	6"	35	314					
LS 15+06	8+97	15+06	17'	A	12'	18"	110	670					
LS 13+27	0+00	5+82		A	10'	6"	35	204					
LS 13+27	5+82	13+27	15'	A	10'	18"	95	708					
LS 7+77	0+00	7+77	15'	A	10'	18"	95	739					
Landings				A				300					
Culvert Backfill	& bedding			A				500	B				100
Bridge surfacing				A				50					
BALLAST TOTAL =								6171	SURFACE TOTAL =		240		

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CULVERT LIST

ROAD NAME	STATION	CULVERT DIAMETER (in)	CULVERT LENGTH (ft)	FABRIC BEDDING REQUIRED	BACKFILL MATERIAL	NOTES
H-1000.1	0+00	18"	40'		CR	
H-1000.1	5+00	18"	36'		CR	
H-1000.1	11+80	18"	30'		CR	
H-1000.1	25+00	18"	30'		CR	
LS 9+30	5+42	18"	32'			
H-1010	MP 0.11	18"	28'		CR	ditch out, outlet
H-1010	0.19	18"	28'		CR	
H-1011	0.48	18"	28'		CR	skew 30 degrees
H-1011	0.71	18"	26'	X	PR	
H-1011	0.76	18"	26'	X	PR	
H-1011	0.8	18"	26'	X	PR	
H-1011	0.84	42"	30'	X	PR	
H-1011	0.96	24"	24'	X	PR	ditch out outlet
H-1011	1	18"	26'	X	PR	ditch out outlet
H-1011	1.05	18"	26'	X	PR	
H-1011	1.11	24"	26'	X	PR	
H-1011	1.14	24"	26'	X	PR	
H-1011	1.2	24"	28'	X	PR	
H-1011	1.35	30"	32'	X	PR	apx 20 cu yd spalls to waste area
H-1011	1.46	30"	30'		PR	temporary
LS 15+06	4+57	18"	30'			temporary
LS 15+06	11+75	18"	30'			temporary
LS 13+27	8+62	18"	30'			temporary
LS 7+77	1+35	18"	30'			temporary
LS 7+77	6+74	18"	30'			temporary
as directed		18"	26'	X	PR	
as directed		18"	26'	X	PR	
as directed		18"	26'	X	PR	
as directed		18"	26'	X	PR	

All backfill shall be native material unless specified otherwise. PR=Pitrun, CR=Crushed 1 ½ - Minimum height of cover is 18"

Required Minimum Gauge for Metal Pipe

Diameter	Gauge
18"	16
24" - 42"	14

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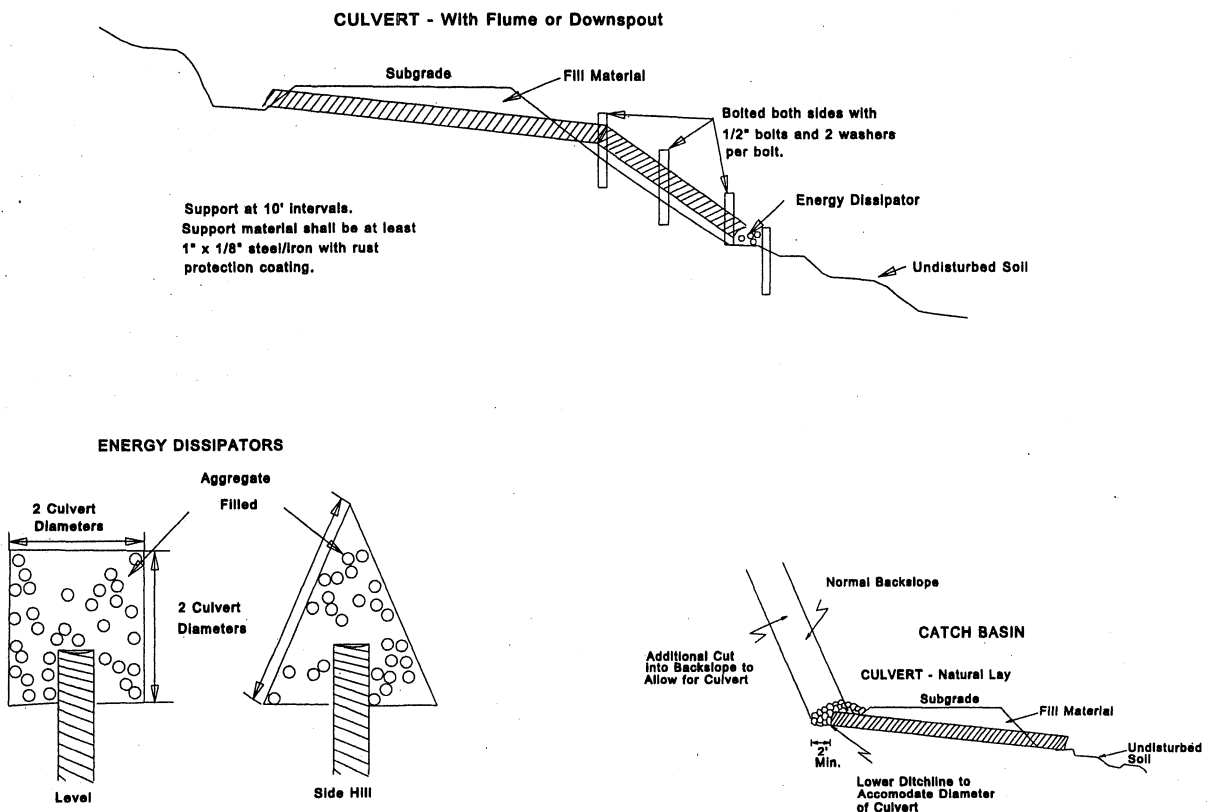
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CULVERT AND DRAINAGE SPECIFICATION DETAIL

INSTALLATION REQUIREMENTS:

1. Proper preparation of foundation and placement of bedding material shall precede the installation of all culvert pipe. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform dense unyielding base. The backfill material shall be placed so that the pipe is uniformly supported along the barrel.
2. All bedding material of poor or non-uniform bearing capacity shall be removed and replaced with suitable fill. Crushed stone, gravel or compacted soil backfill material shall be used as the bedding and envelope material around the culvert. The aggregate size shall not exceed 1/6 pipe diameter or 4", whichever is smaller. All material shall be compacted in six inch layers under the haunches, around the sides and above the pipe to the minimum height of cover.
3. Crushed stone and gravel backfill materials shall be compacted to a level of 90-95% AASHTO standard density. When native soils are used as backfill material, a compaction level of 85% is required. This minimum compaction can be achieved by either hand or mechanical tamping.



DISSIPATOR SPECIFICATIONS:

Depth: 1 culvert diameter
Aggregate: 6" plus

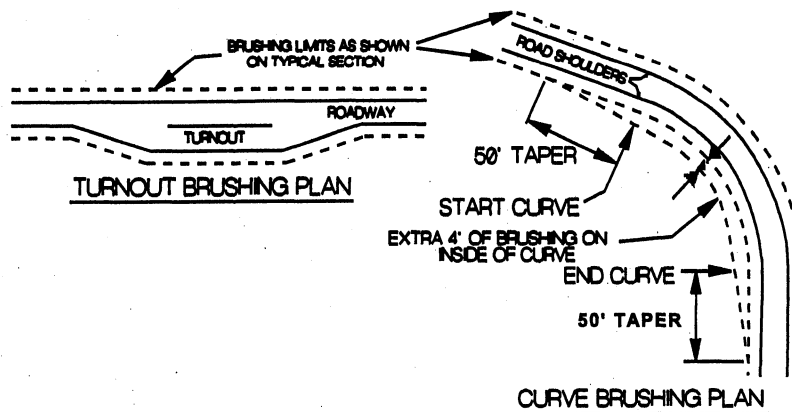
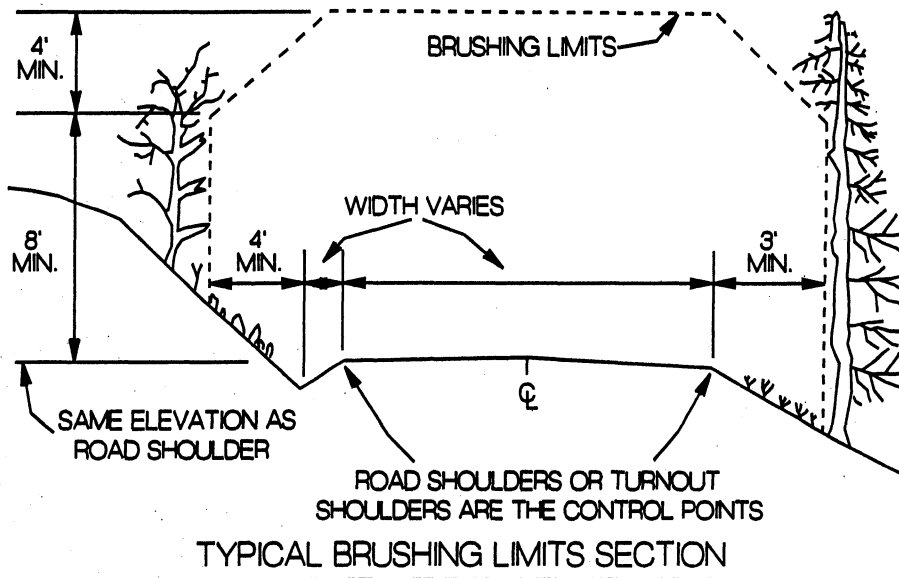
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BRUSHING DETAIL

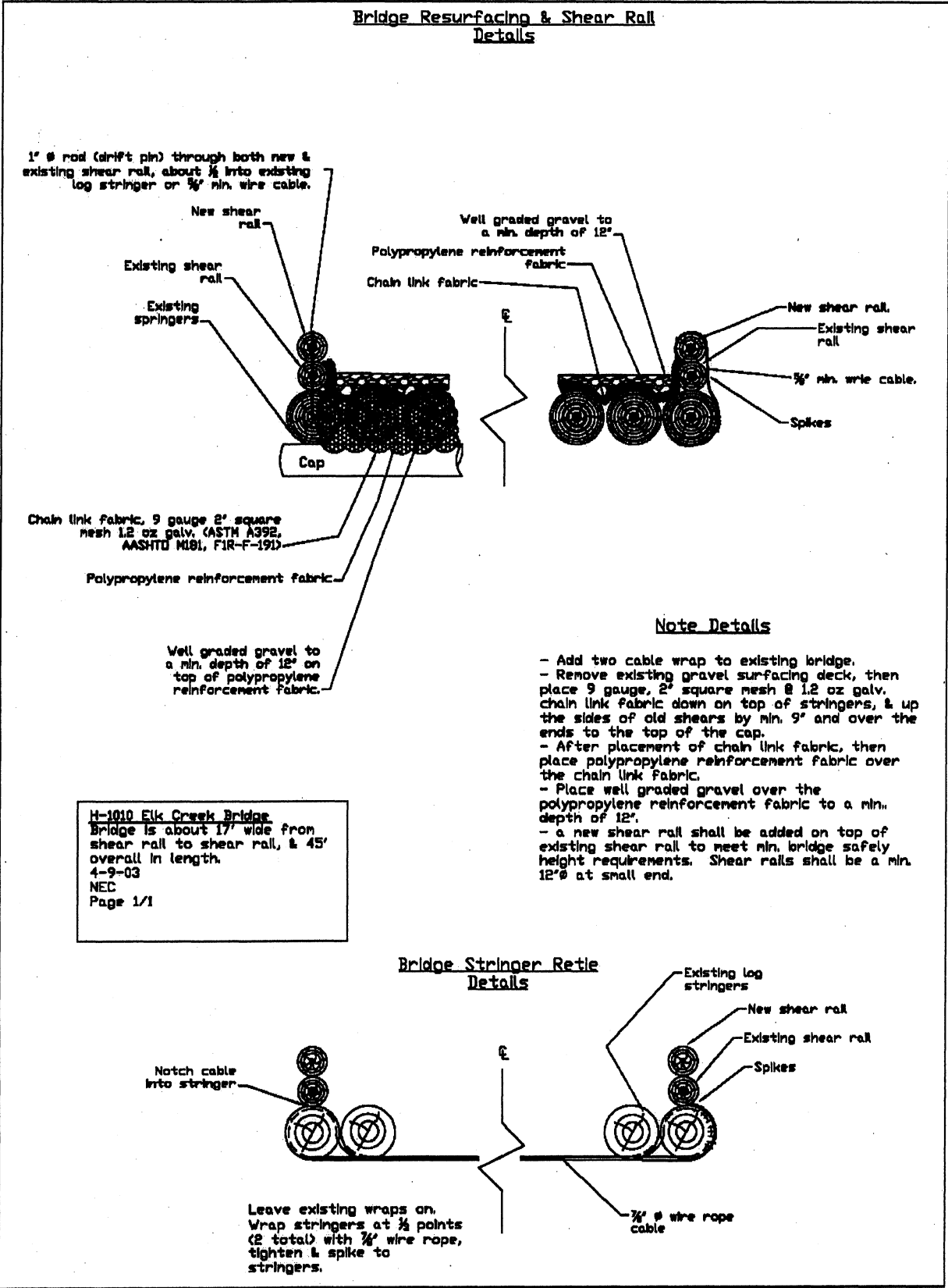


- 1) ALL VEGETATION WITHIN THE BRUSHING LIMITS SHALL BE CUT TO WITHIN 8' OF THE GROUND, UNLESS OTHERWISE DIRECTED BY THE CONTRACT ADMINISTRATOR.
- 2) ALL BRUSH, TREES, LIMBS, ETC. SHALL BE REMOVED FROM THE ROAD SURFACE.
- 3) ALL BRUSH, TREES, LIMBS, ETC. THAT MAY RESTRICT THE FLOW OF WATER SHALL BE REMOVED FROM THE DITCH LINE.
- 4) ALL DEBRIS THAT MAY ROLL OR MIGRATE INTO THE DITCH LINE SHALL BE REMOVED.

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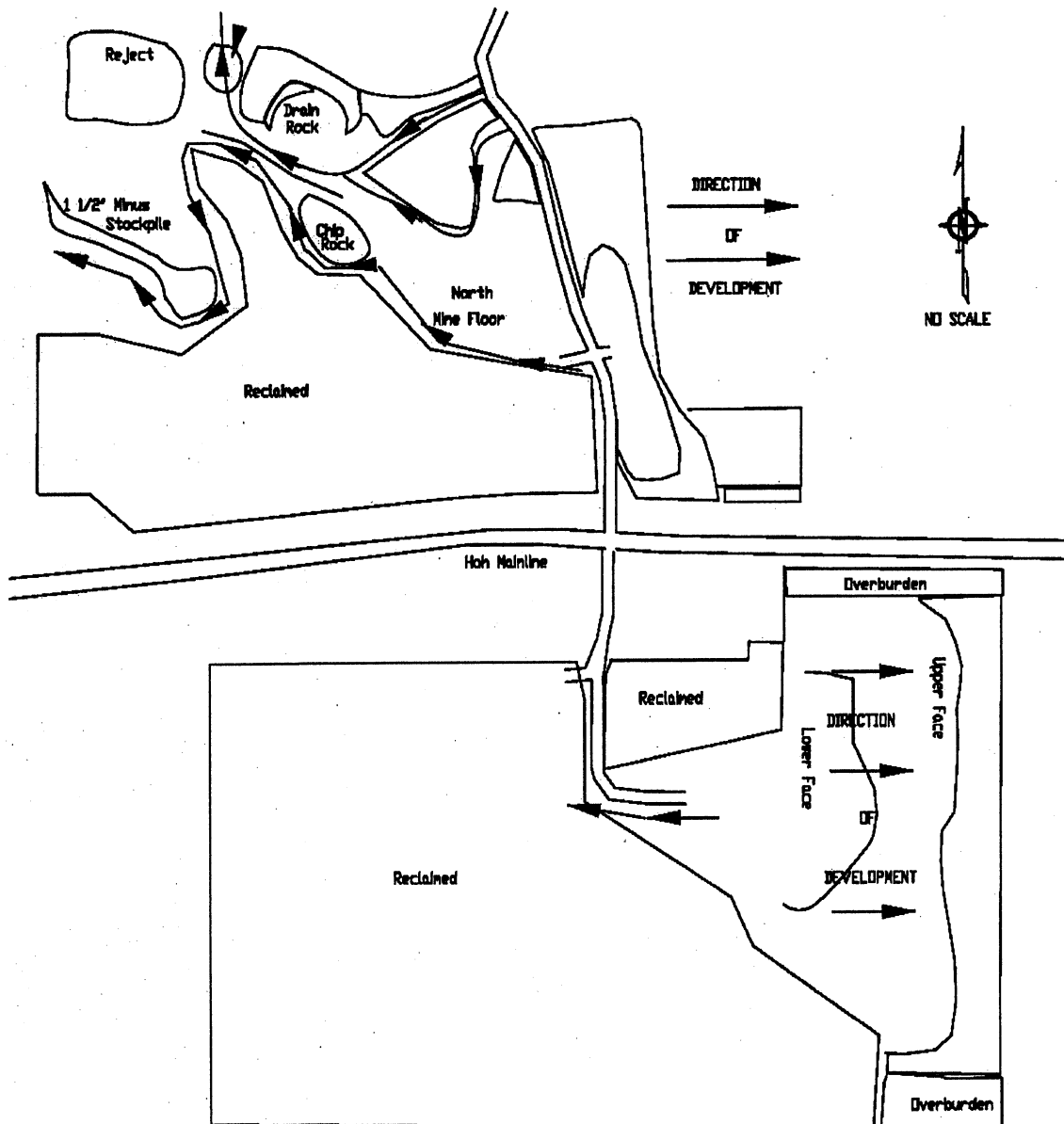
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Winfield Surface Mine
Section 35, T. 27 N., R. 12 W., W.M.



PIT DEVELOPMENT PLAN 5-9-2003

1. Areas to be developed as directed by the Contract Administrator.
2. Working face height is not to exceed 15 feet.
3. Waste material shall be placed in designated areas.
4. Pit floor to be maintained at a 2% grade toward drain.
5. Suitable drainage shall be maintained at all times.
6. Overburden stripping shall be maintained at least 15 feet back from the working face.
8. Stripping shall mean removal of woody debris and overburden.
9. Contact Pit Manager prior to commencement of pit activities.
10. Operations shall conform with the spill response plans.